

TEMPERED STEEL

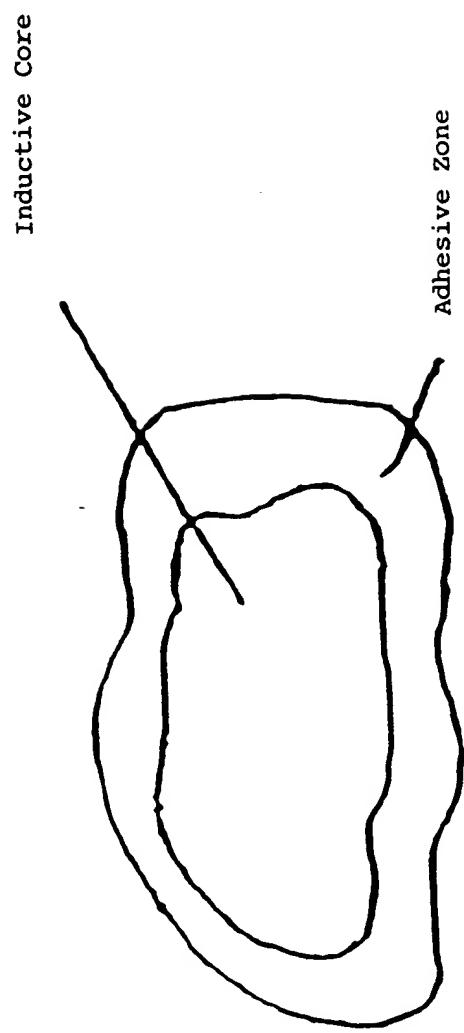


FIG. 1

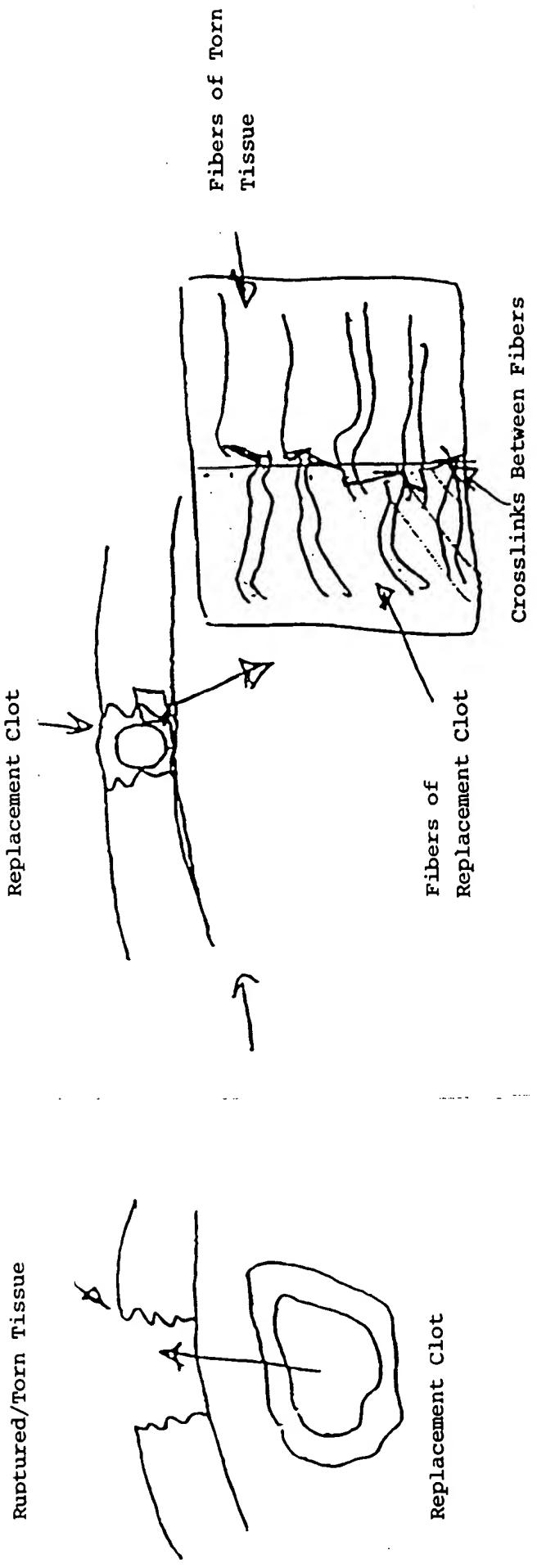
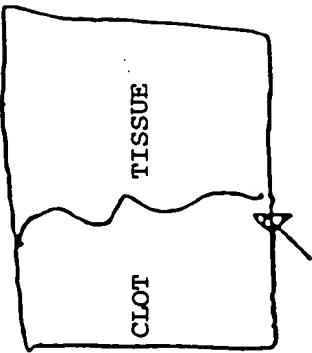


FIG. 2

Held Together by Pressure,
Contact Maintained



Suture to hold Contact
Mechanically

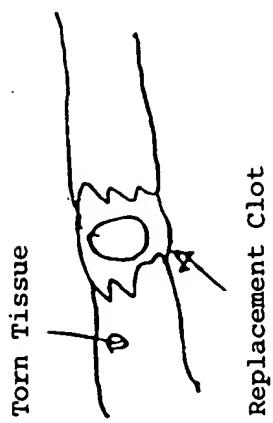


FIG. 3

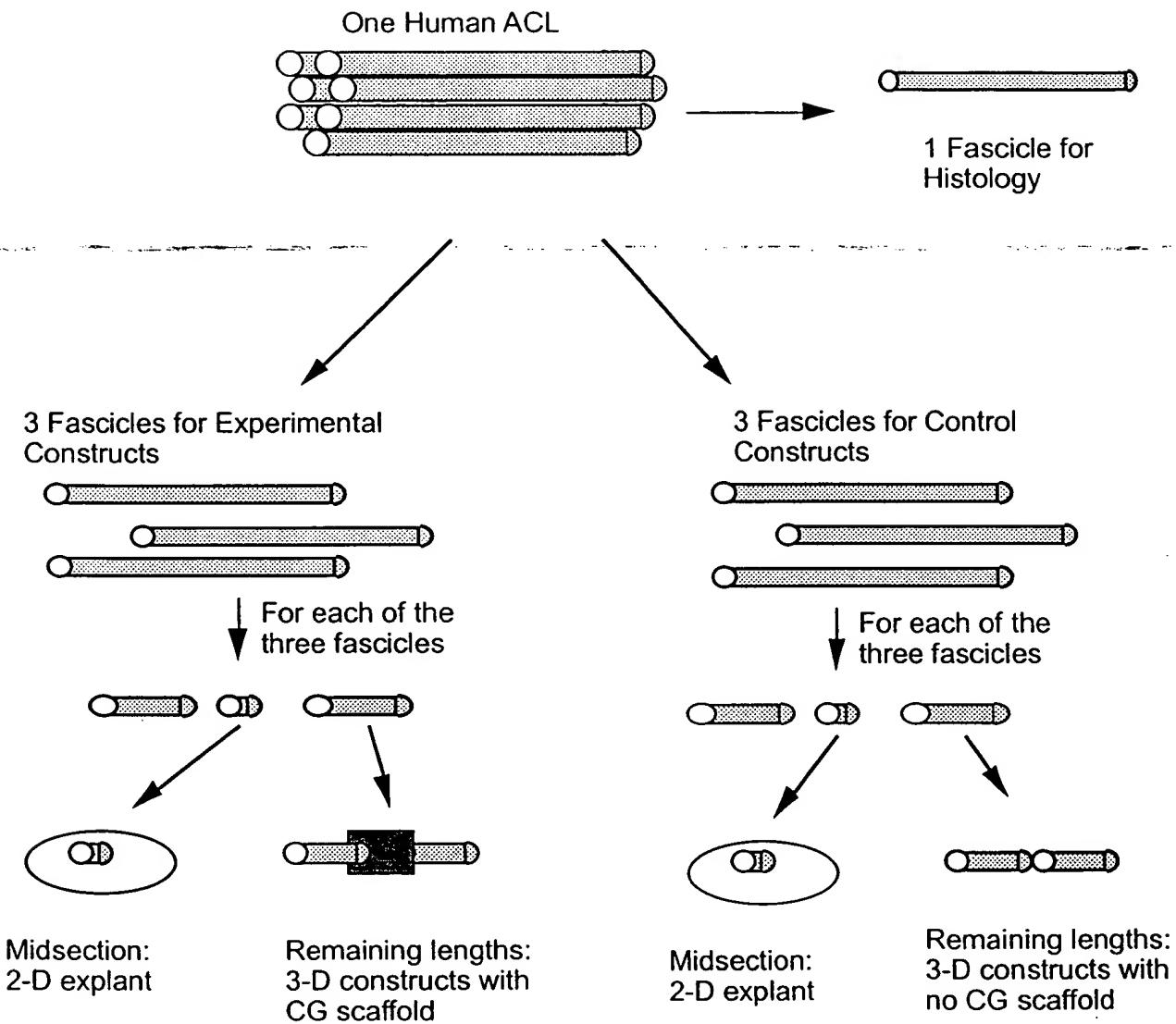
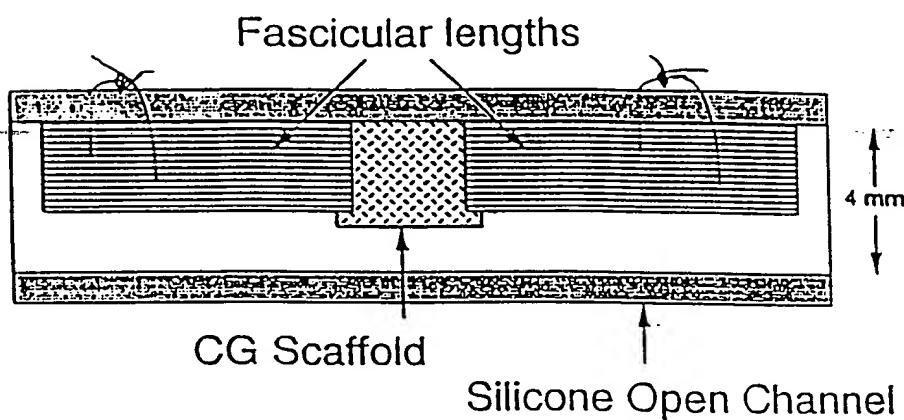


FIG. 4

Figure 5: Schematic of experimental and control three-dimensional constructs

Experimental Fascicle Construct



Control Fascicle Construct

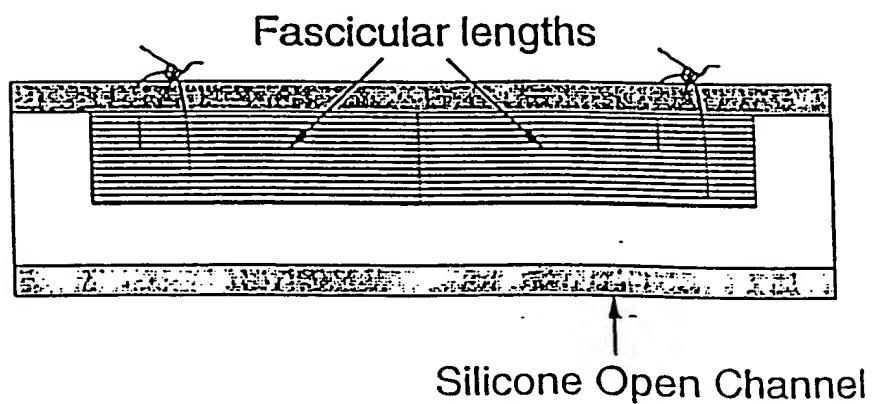


Figure 6: Effective Radius of Outgrowth as a Function of Time for Human ACL Explants

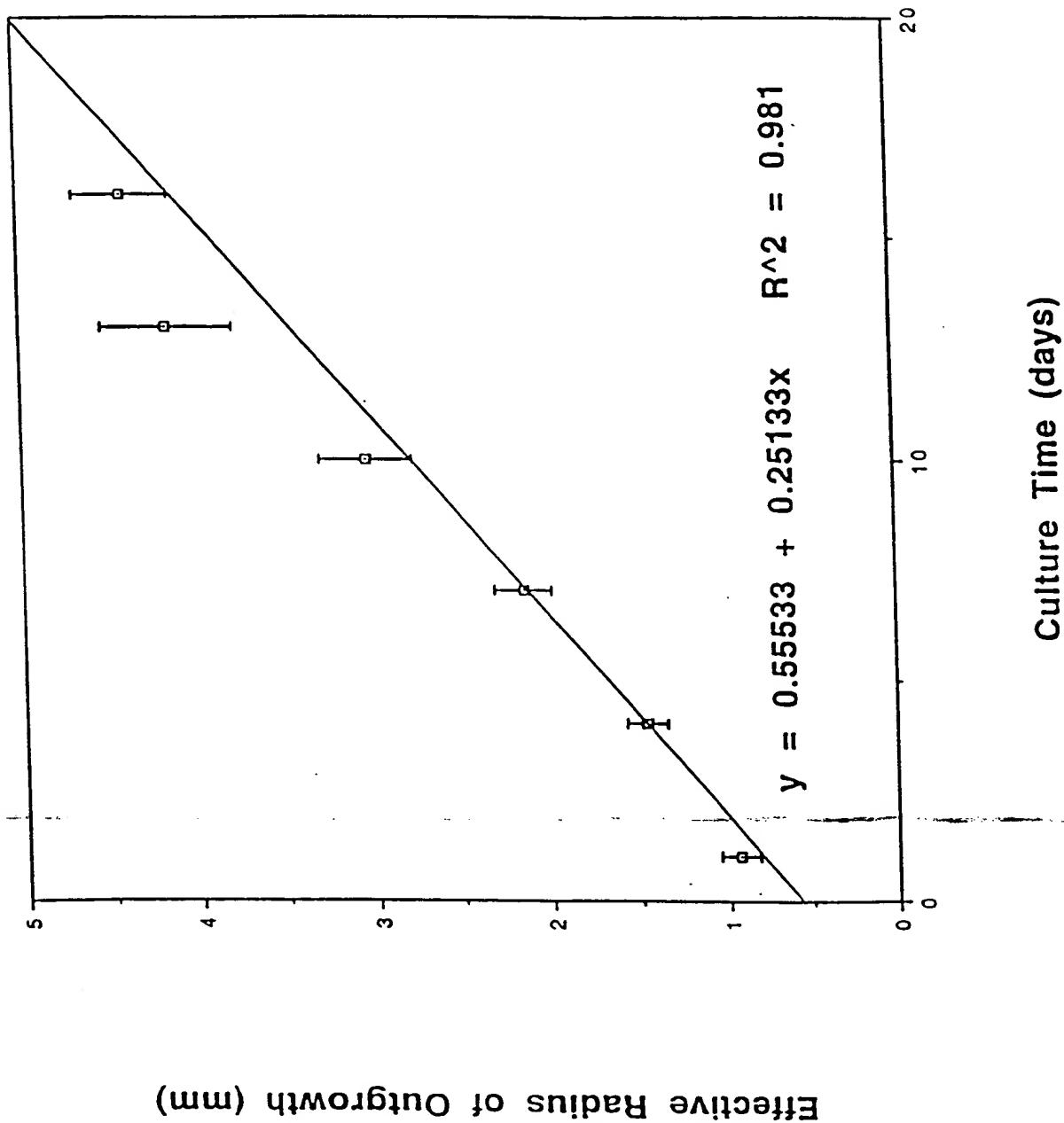


Figure 7: Changes in Cell Number Density in the Fascicle-Scaffold Construct as a Function of Time in Culture

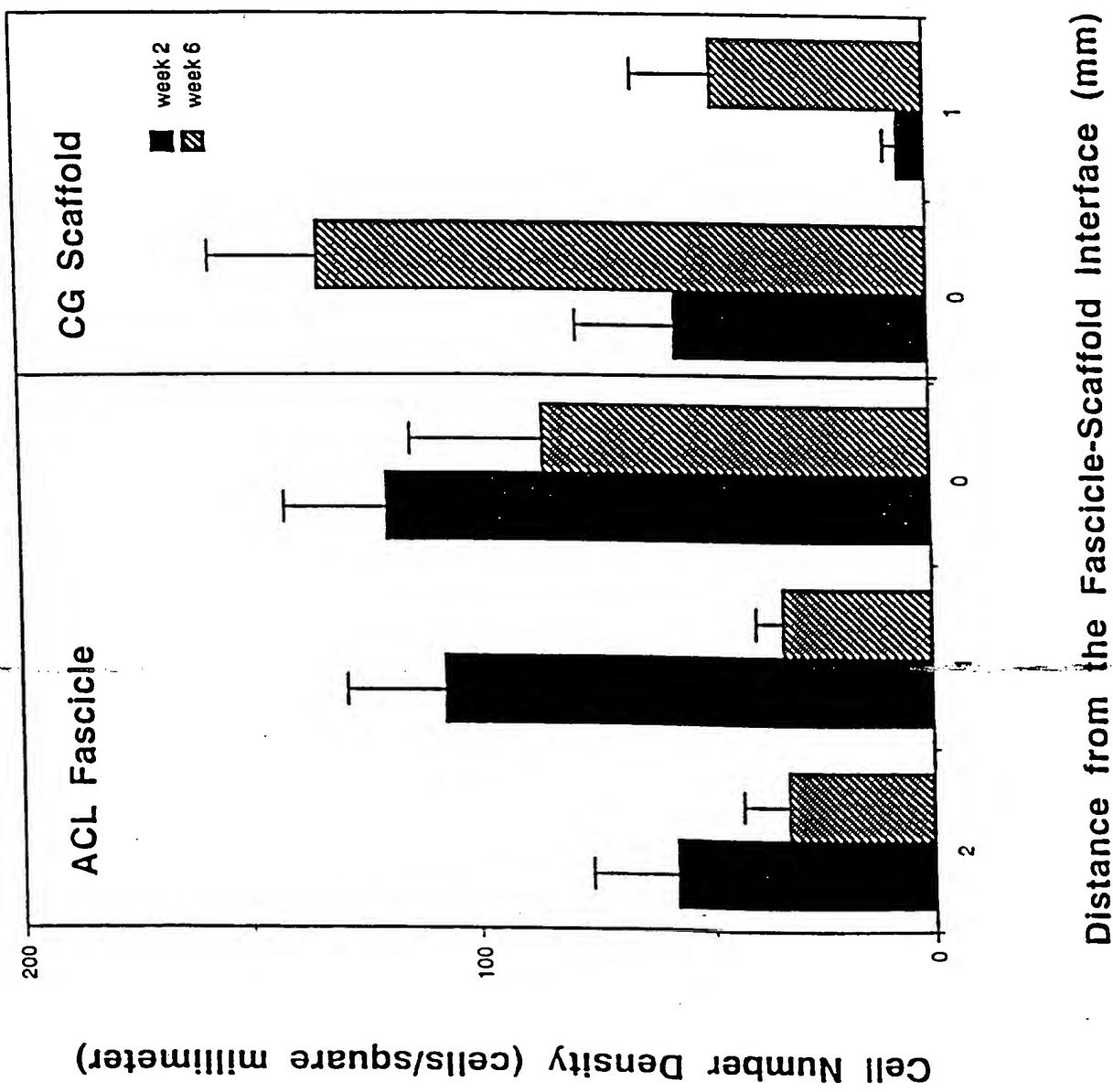
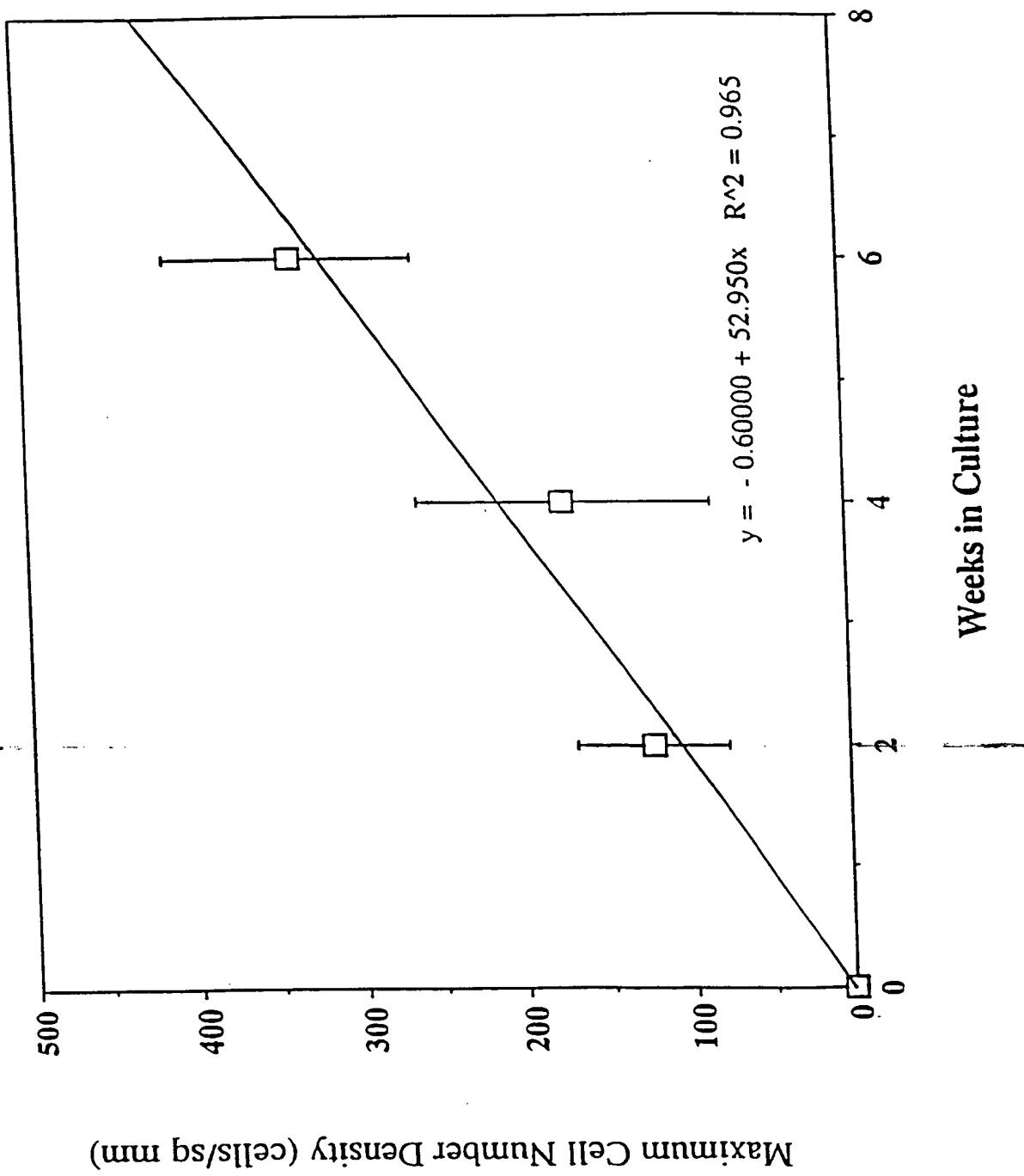


Figure 8: Maximum Cell Number Density in the Collagen-Glycosaminoglycan Scaffold as a Function of Weeks in Culture



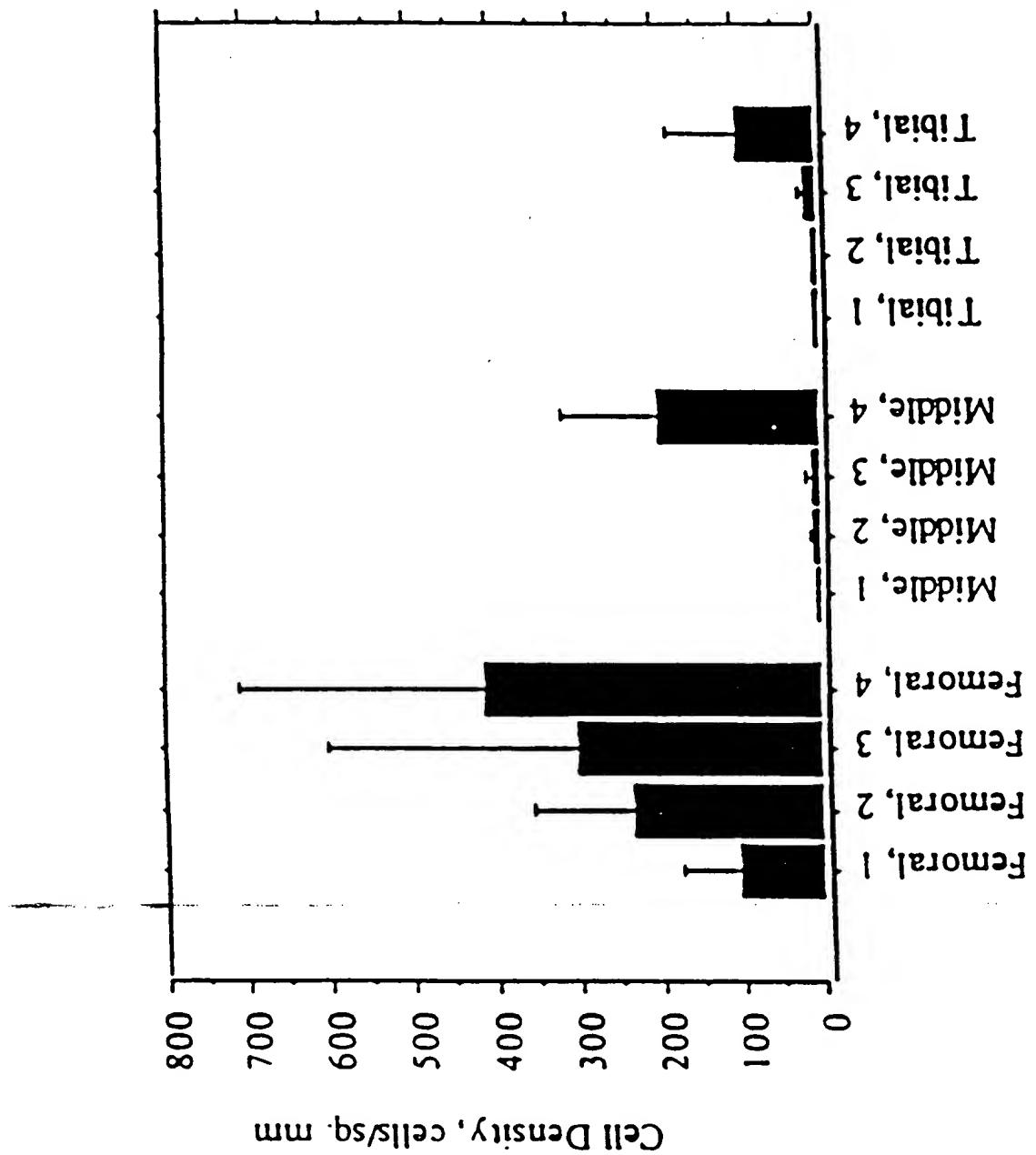


FIG. 9

Migration into CG Scaffold from Explants of Intact
and Ruptured Human ACLs

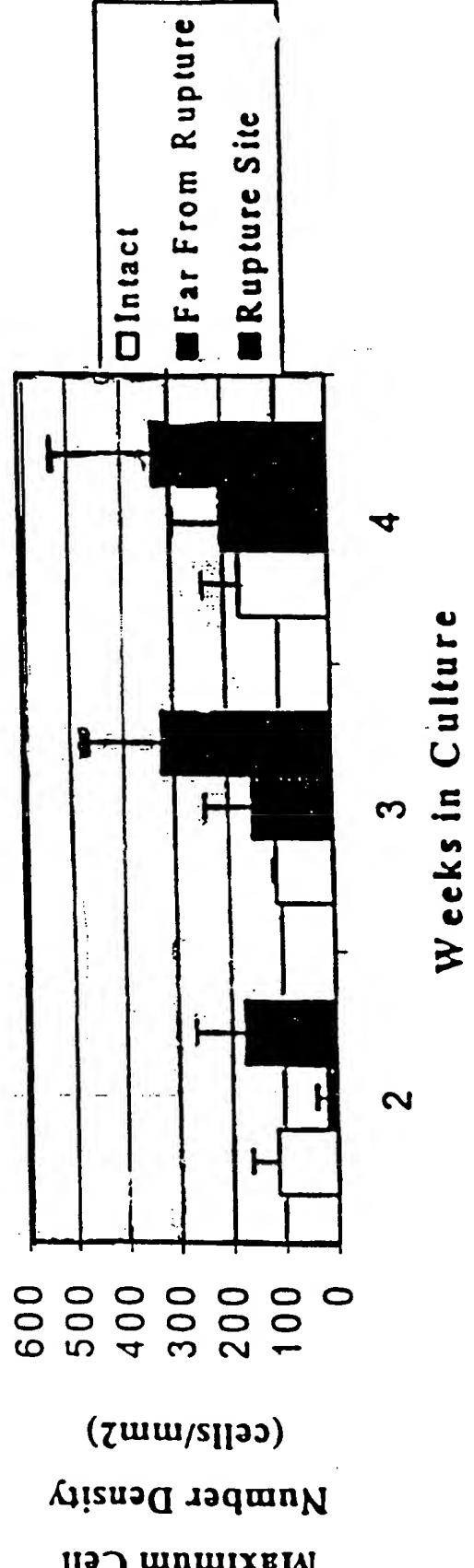


Figure 10 Mean \pm SEM

TOP/240-250/60

Figure 11. Cell number density near the site of rupture in the human ACL as a function of time after injury

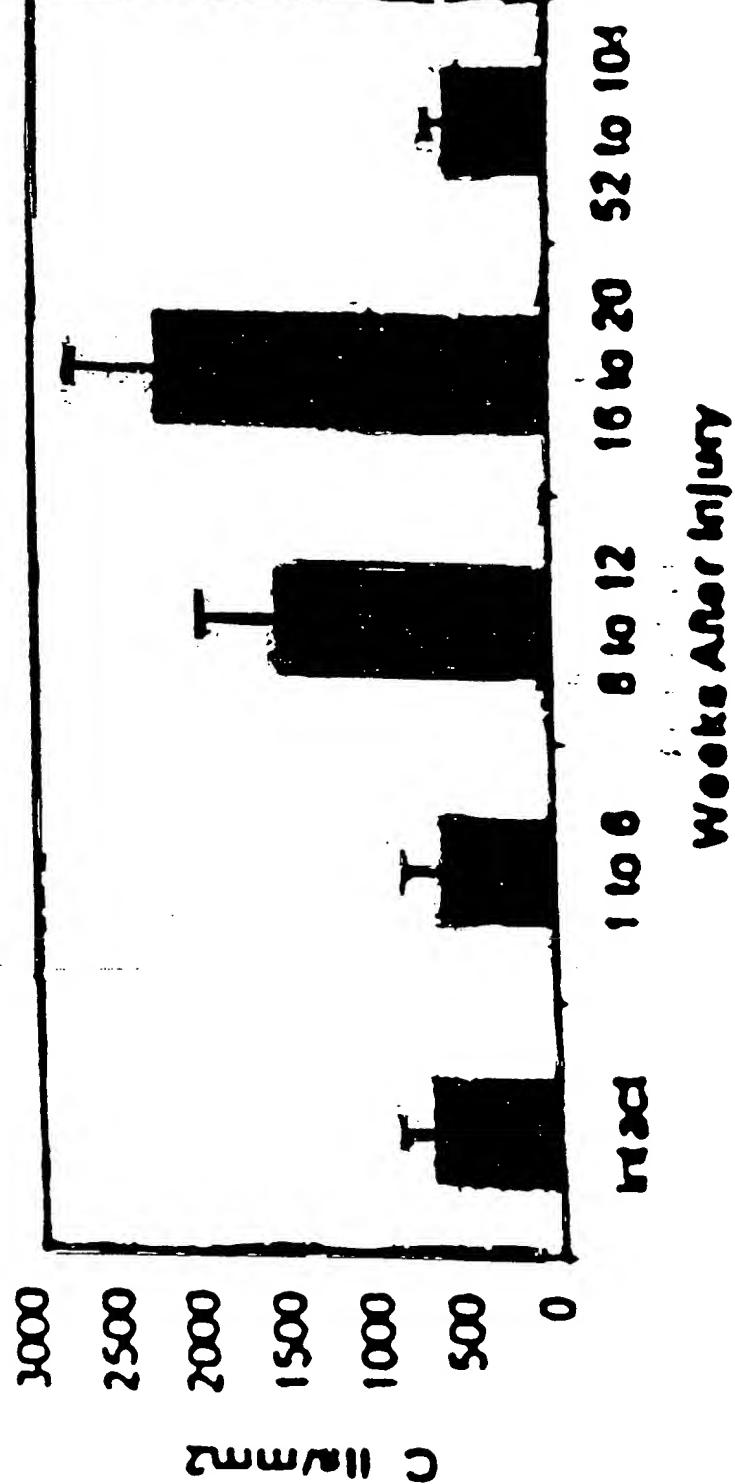


FIG. 11

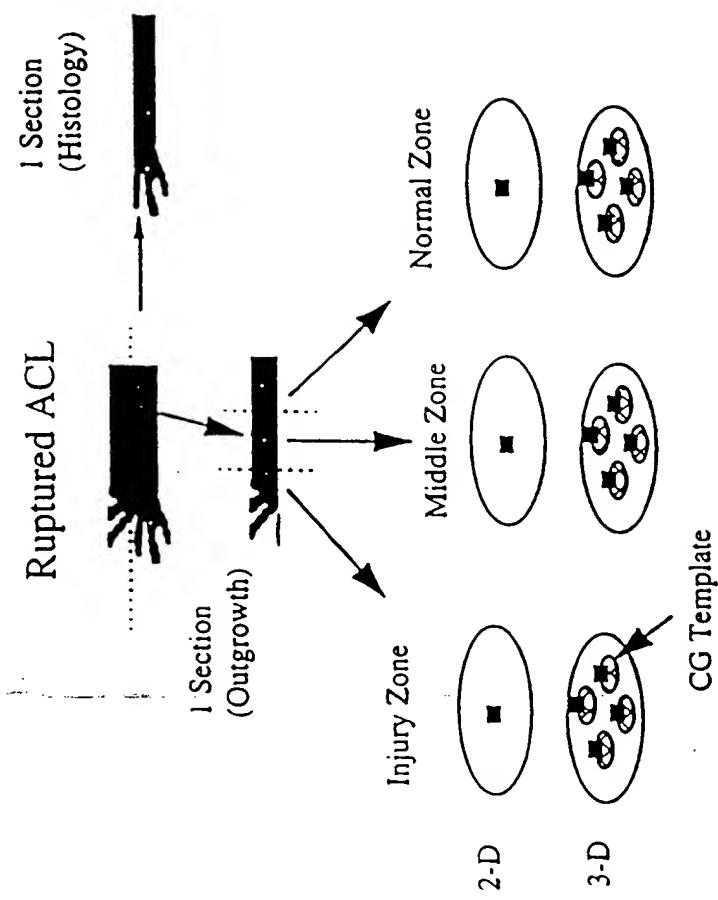


FIG. 12

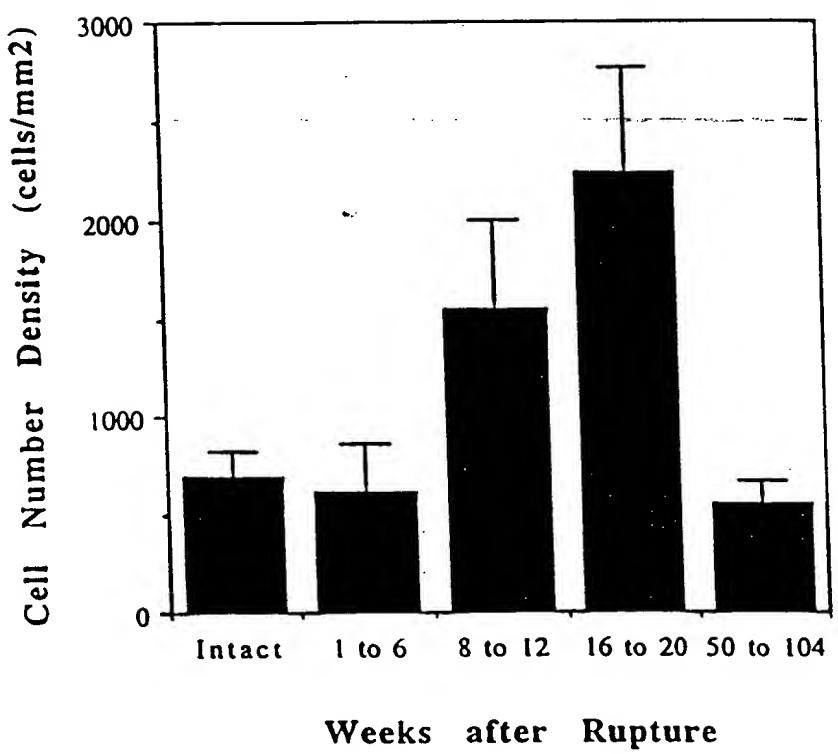


FIG. 13

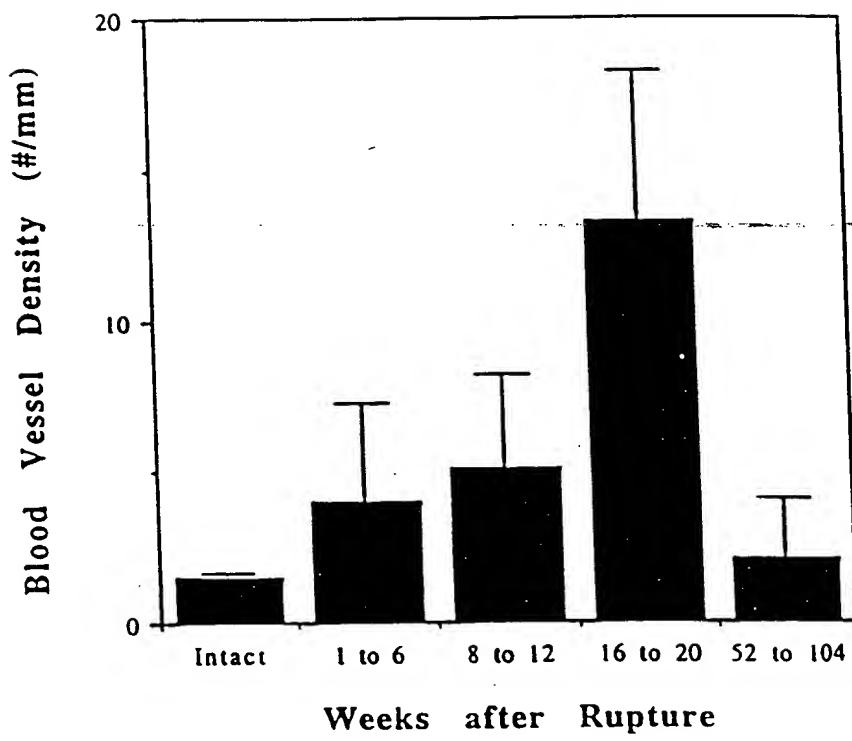
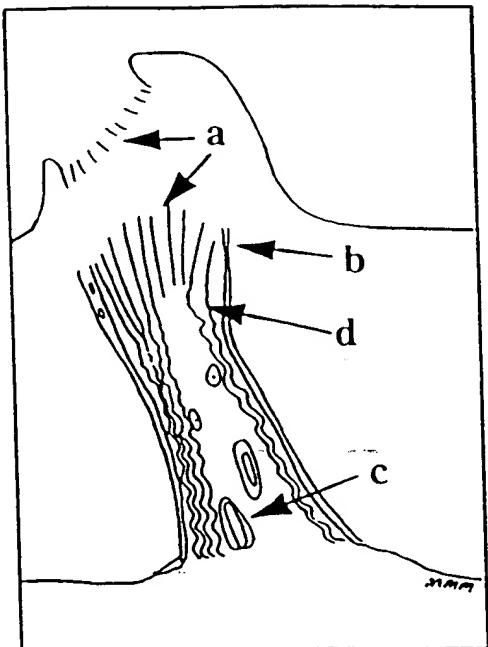
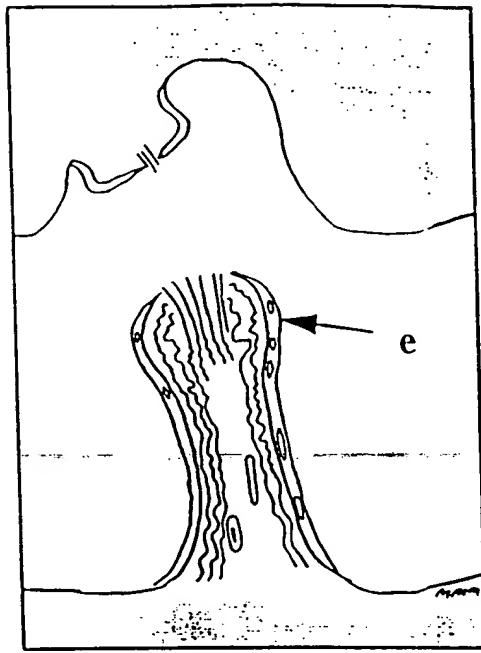


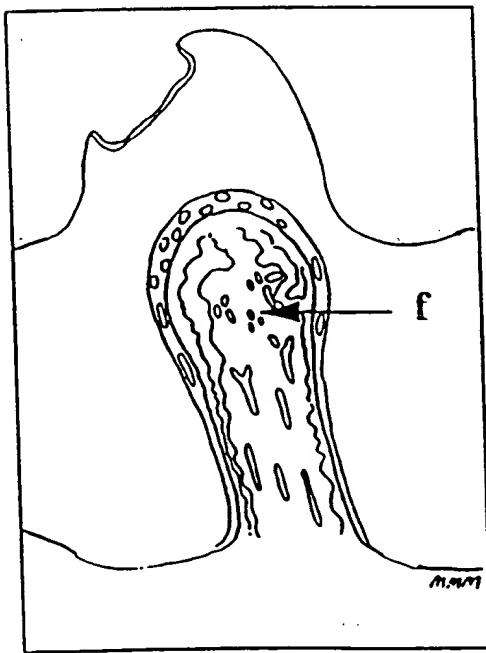
FIG. 14



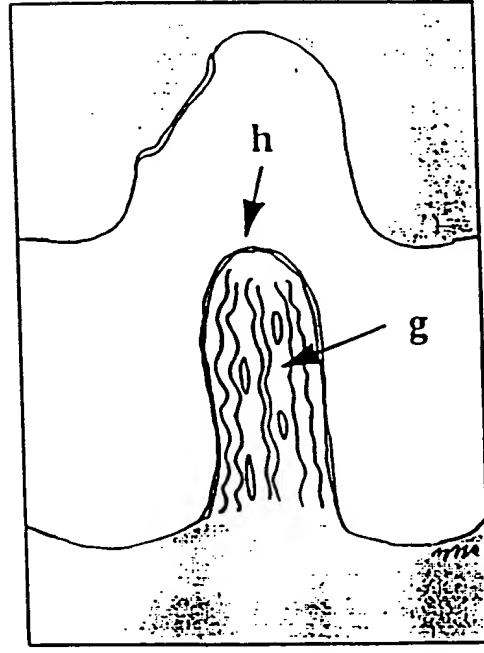
A. Inflammation



B. Epiligamentous
Regeneration



C. Proliferation



D. Remodelling

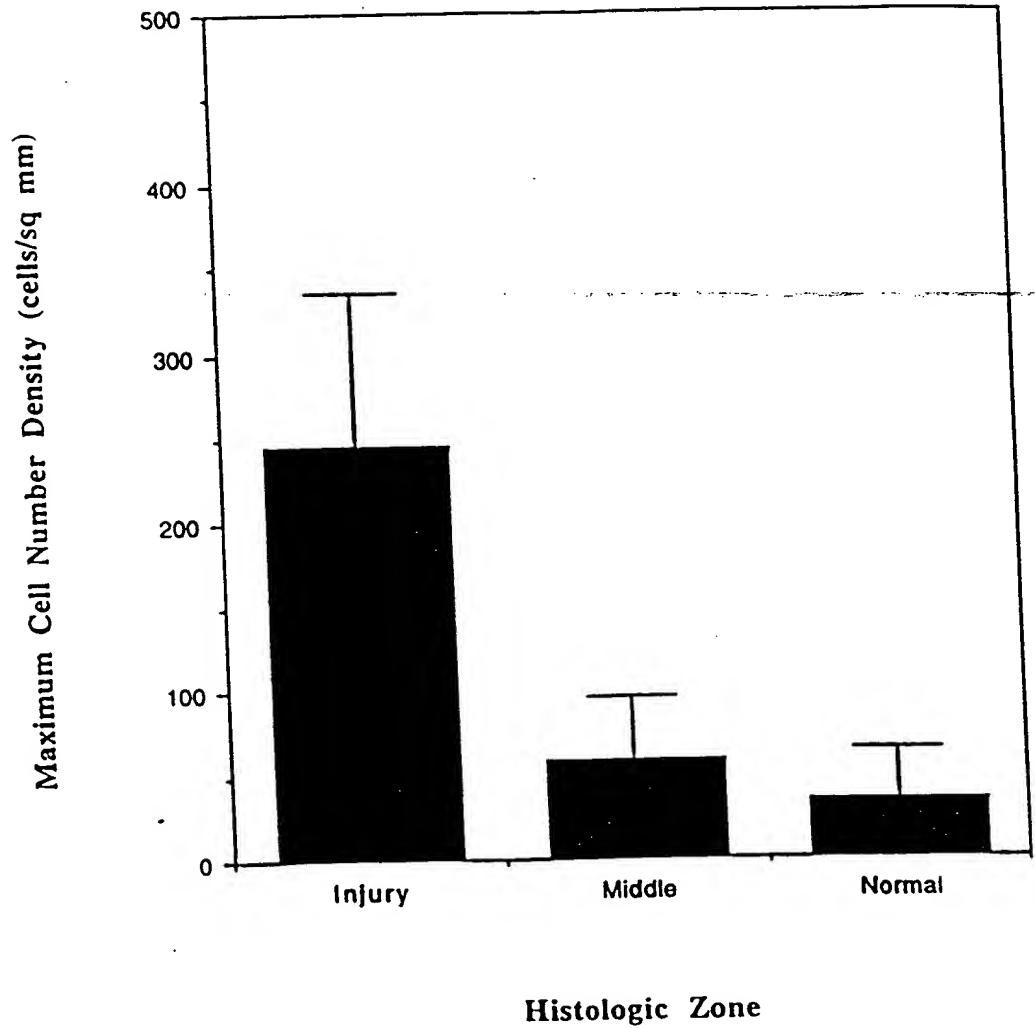


FIG. 16

Figure 17 Mean \pm SEM

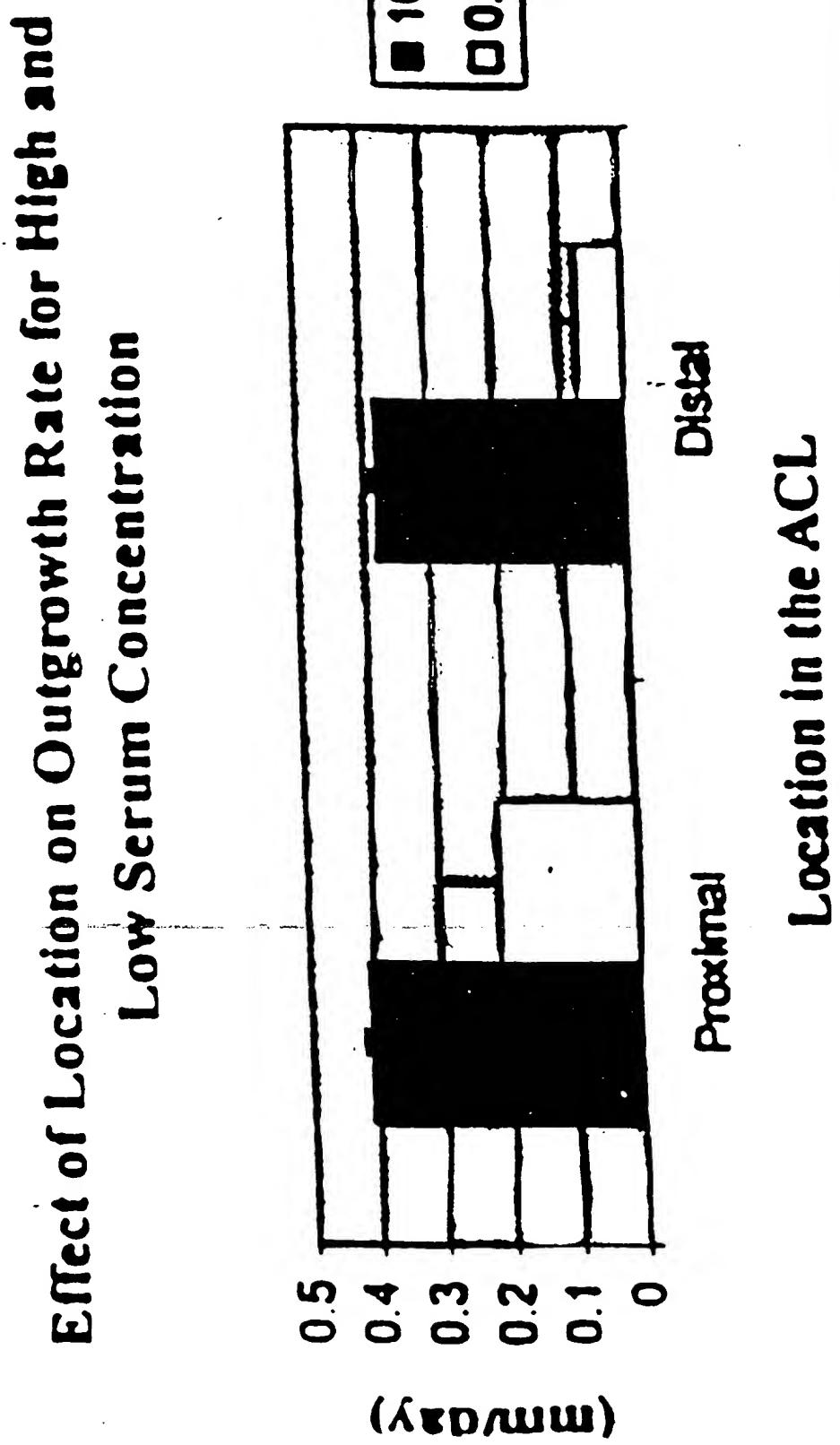
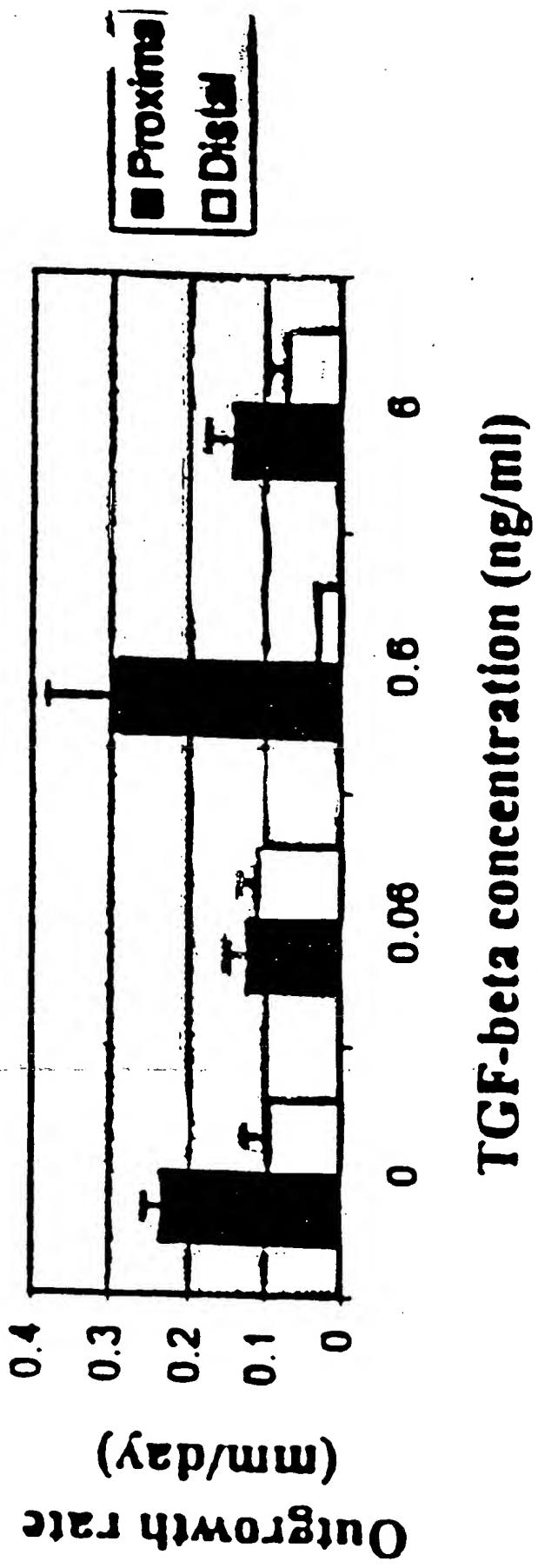


Figure 18 Mean \pm SEM

Outgrowth rates from human ACL explants as a function of location and TGF-beta concentration



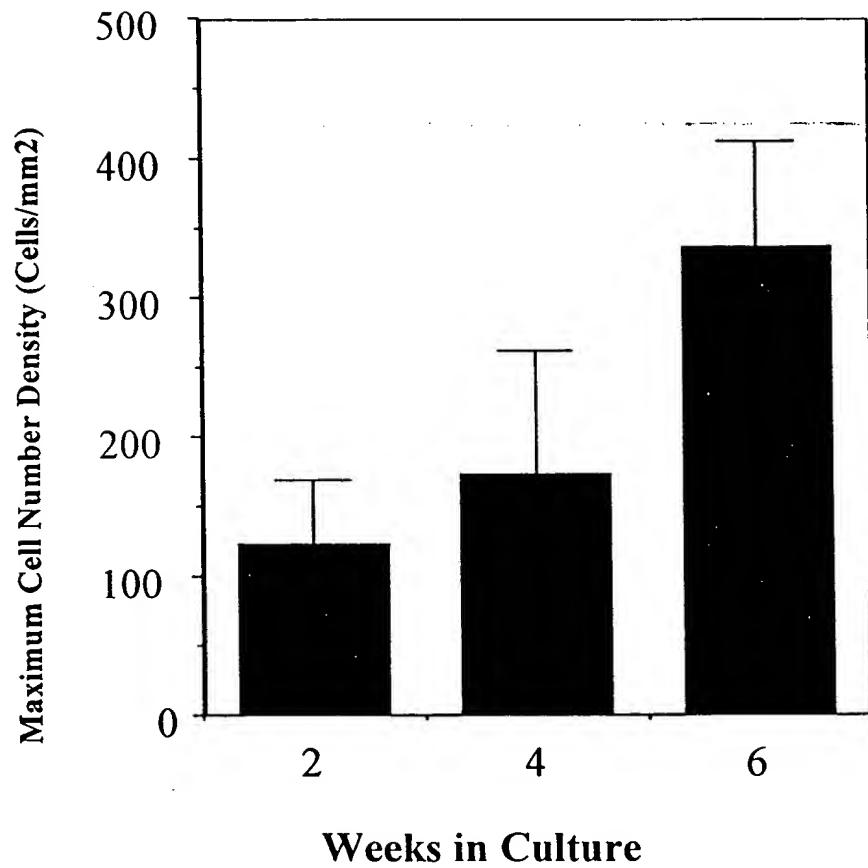
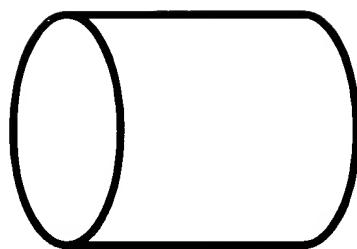


FIG. 19

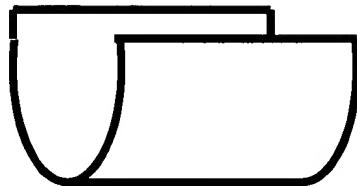
Figure 20

TOP 2/0-360/TE60

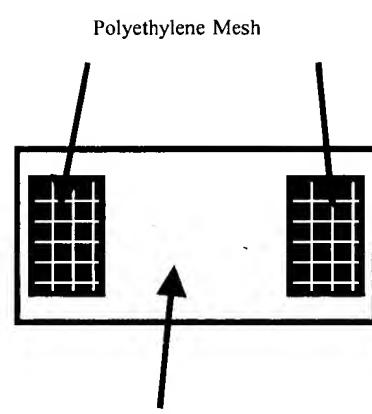


1" Length of 6mm
ID Silicon Tubing

TRA 1540299v1



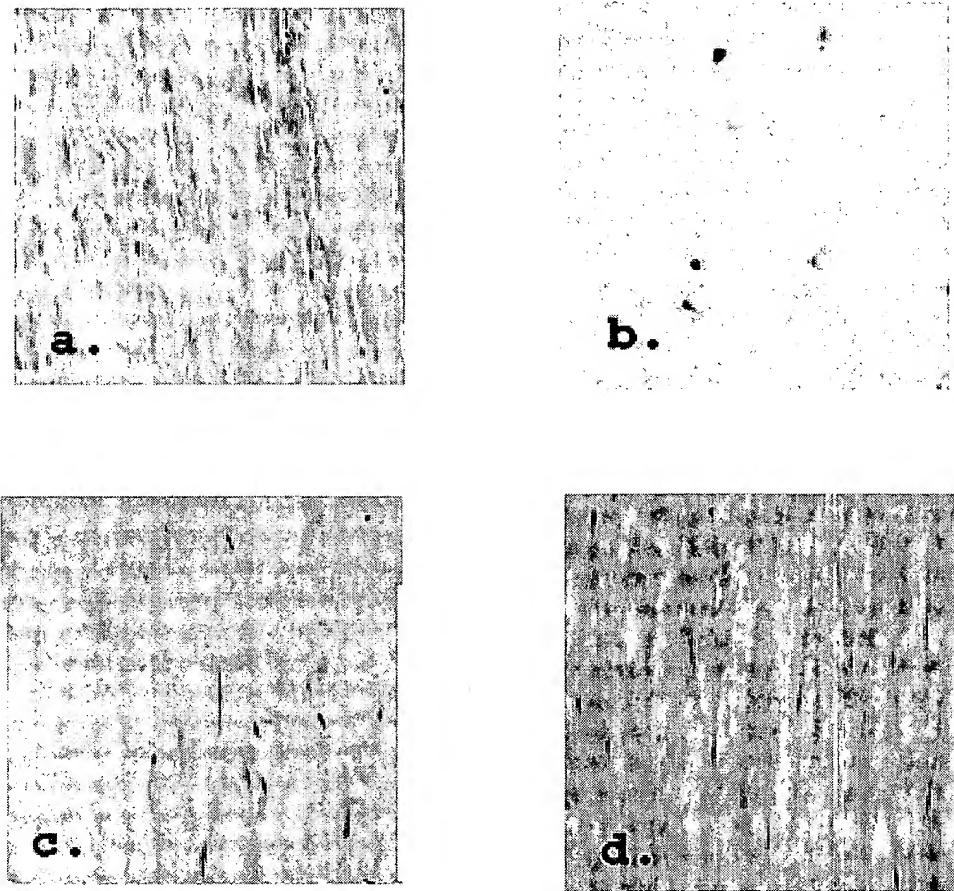
Cut in half
lengthwise to form
trough



Polyethylene Mesh
300 microliters of gel
with cells added

View from top

0000000000000000



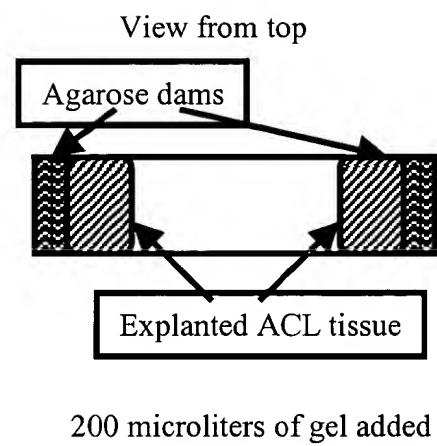
Experiment 11/00

- a. Intact Human ACL
- b. Gel with Cells at 3 hours of culture
- c. Gel with Cells at 3 days of culture
- d. Gel with Cells at 9 days of culture

Figure 21

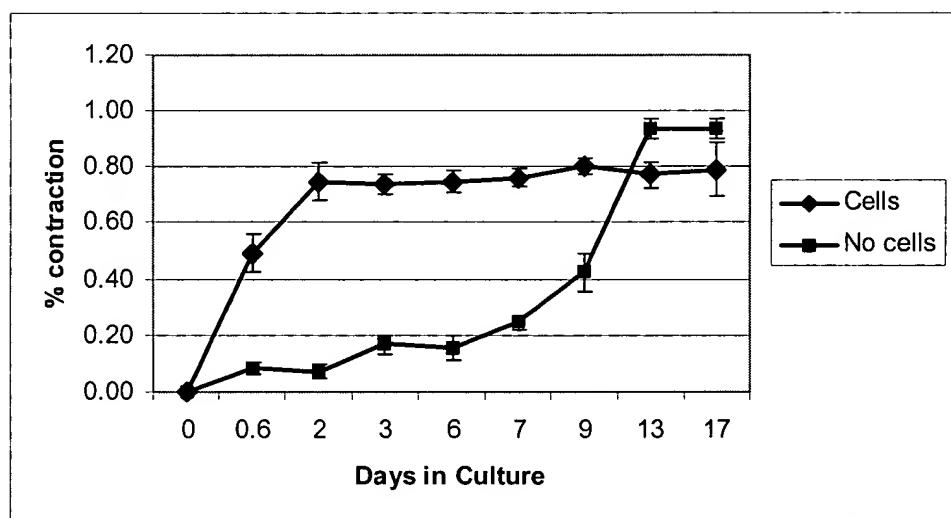
TRA 1540302v1

FIG. 22



TRA 1540303v1

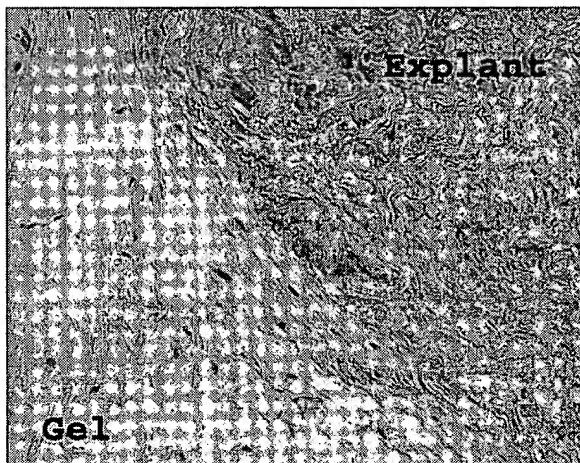
FIG. 23



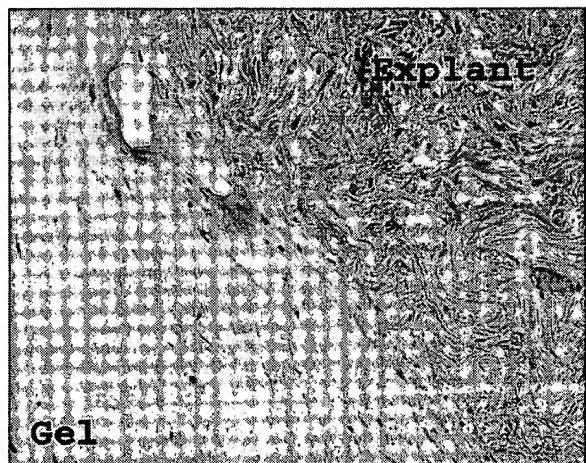
TRA 1540305v1

FIG. 24

TOP SECRET//COMINT



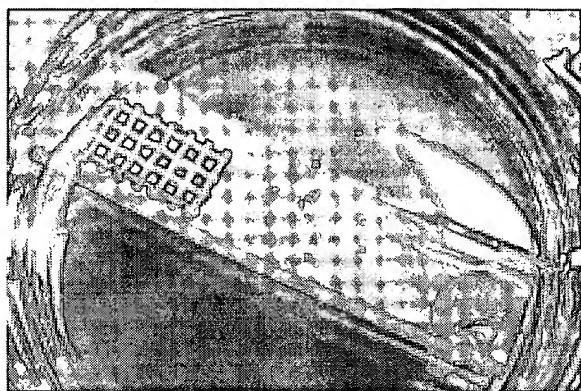
Day 21: Cells



Day 21: Cell-free

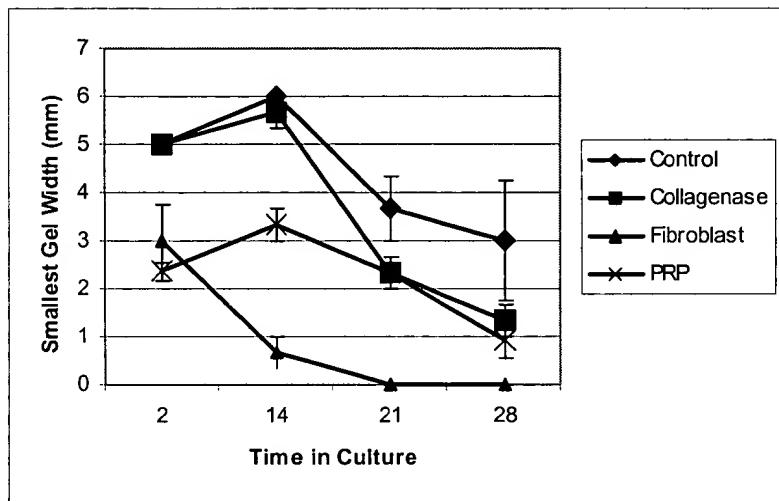
TRA 1540306v1

FIG. 25



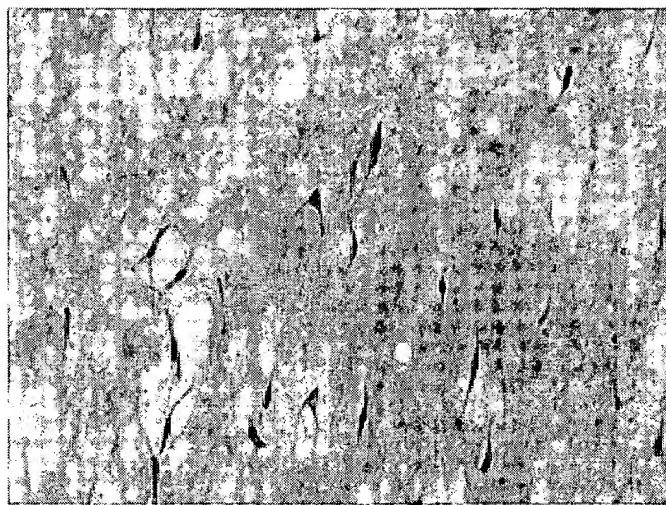
TRA 1540308v1

FIG. 26



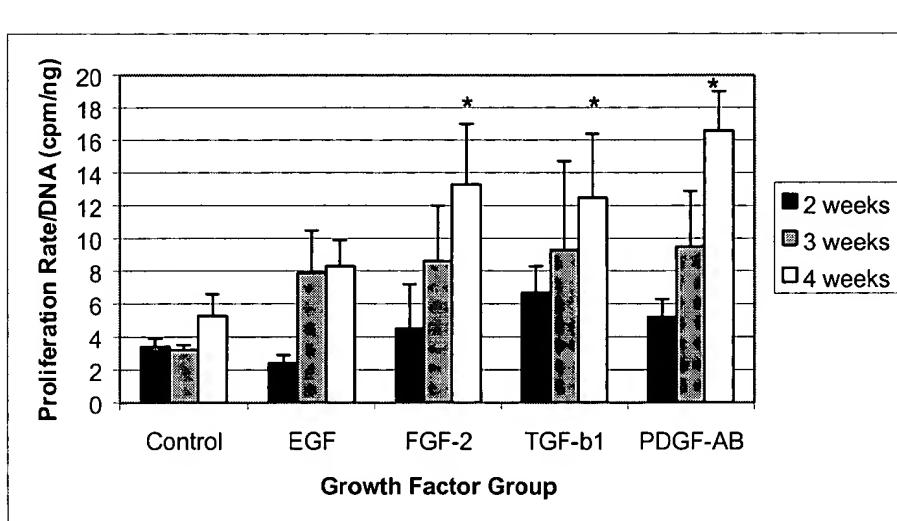
TRA 1540310v1

FIG. 27



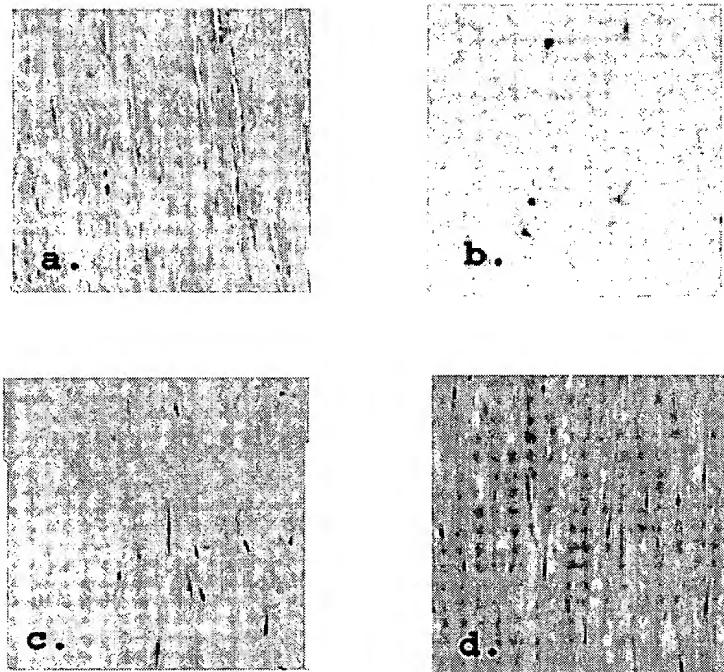
TRA 1540311v1

Fig. 28



TRA 1547443v1

Fig. 29

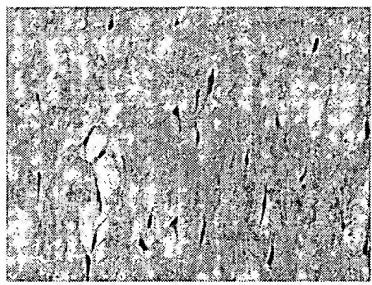


Experiment 11/00

- a. Intact Human ACL
- b. Gel with Cells at 3 hours of culture
- c. Gel with Cells at 3 days of culture
- d. Gel with Cells at 9 days of culture

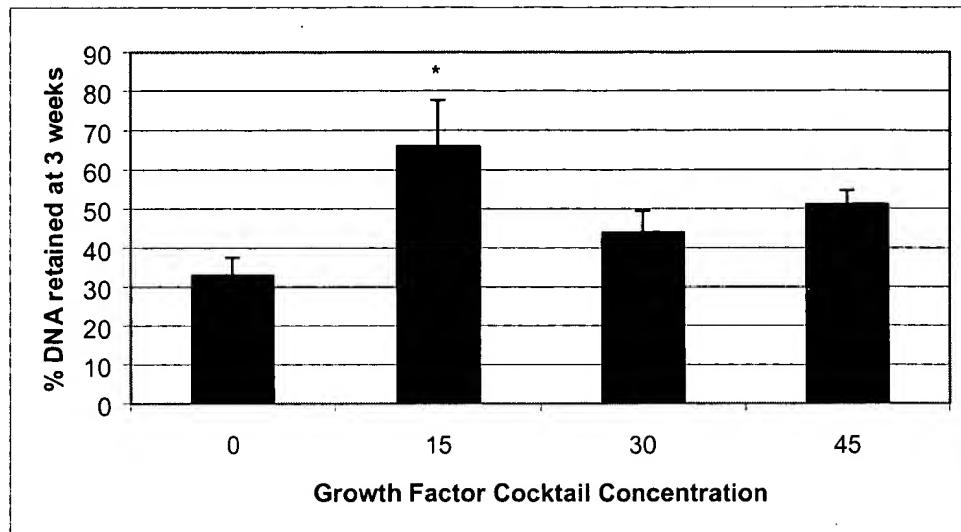
Fig. 30

TRA 1547908v1



TRA 1547908v1

FIG. 31



TRA 1547910v1